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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/033,163	10/24/2001	Diane M. Landers	DP-304037 / DE3-0203	7139

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DELPHI TECHNOLOGIES, INC.
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EXAMINER

SHECHTMAN, SEAN P

ART UNIT	PAPER NUMBER
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2125

DATE MAILED: 10/01/2004

10

Please find below and/or attached an Office communication concerning this application or proceeding.

SK

Office Action Summary

Application No.

10/033,163

Applicant(s)

LANDERS ET AL.

Examiner

Sean P. Shechtman

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 August 2004.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-137 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-137 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 October 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 6/25/02; 9/17/03.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☒ Other: See Continuation Sheet.

Continuation of Attachment(s) 6). Other: IDS filed 8/28/03; 2/24/03; 3/4/03; 8/16/04.

DETAILED ACTION

1. Claims 1-137 are presented for examination.

Drawings

2. Figure 3 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.121(d)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

3. **Content of Specification**

- (a) Title of the Invention
- (b) **Cross-References to Related Applications:** See 37 CFR 1.78 and MPEP § 201.11 (See cross-reference to related applications in the Detailed Description of the Invention on paragraph 4 on page 5 of the instant specification).
- (c) Statement Regarding Federally Sponsored Research and Development
- (d) Incorporation-By-Reference Of Material Submitted On a Compact Disc
- (e) Background of the Invention: See MPEP § 608.01(c). The specification should set forth the Background of the Invention in two parts:
 - (1) Field of the Invention: A statement of the field of art to which the invention pertains. This statement may include a paraphrasing of the applicable U.S. patent classification definitions of the subject matter of the claimed invention. This item may also be titled "Technical Field."
 - (2) **Description of the Related Art including information disclosed under 37 CFR 1.97 and 37 CFR 1.98:** A description of the related art known to the applicant and including, if applicable, references to specific related art and problems involved in the prior art which are solved by the applicant's invention. This item may also be titled "Background Art." (See the description of the related art known to applicant in the Detailed Description of the Invention in the instant specification).

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- (f) Brief Summary of the Invention
- (g) Brief Description of the Several Views of the Drawing(s)
- (h) Detailed Description of the Invention
- (i) Claim or Claims
- (j) Abstract of the Disclosure
- (k) Sequence Listing

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 4, 6, 8, 12, 20, 23, 25, 27, 29, 33, 41, 46, 51, 53, 55, 57, 61, 69, 72, 74, 76, 78, 82, 90, 95, 111, 114, 118, 127, 135, are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

4. Claim 4 recites the limitation that “said associative relationship is a parent/child relationship”, however claim 3, from which claim 4 depends, recites the limitation of “an associative relationship”, and claim 1, from which claim 4 depends, recites the limitation of “an associative relationship”. Therefore, it is not clear which associative relationship is “said associative relationship”.

5. Claim 6 recites the limitation that “said associative relationship is a parent/child relationship”, however claim 5, from which claim 6 depends, recites the limitation of “an associative relationship”, and claim 1, from which claim 5 depends, recites the limitation of “an associative relationship”. Therefore, it is not clear which associative relationship is “said associative relationship”.

6. Claim 8 recites the limitation that “said associative relationship is a parent/child relationship”, however claim 7, from which claim 8 depends, recites the limitation of “an

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associative relationship”, and claim 1, from which claim 7 depends, recites the limitation of “an associative relationship”. Therefore, it is not clear which associative relationship is “said associative relationship”.

7. Dependent claims 12, 23, 25, 27, 29, 33, 46, 51, 53, 55, 57, 61, 72, 74, 76, 78, 82, 95, 114, 118, 127, recite the same indefinite terminology with respect to the term “an associative relationship”, and therefore, are also indefinite. Namely, which associative relationship is “said associative relationship”?

8. Claims 20, 41, 69, 90, 111, 135, recite the limitations "said manufacturing instructions" in lines 1-2. There is insufficient antecedent basis for these limitation(s) in the claim(s).

9. Due to the number of 35 USC § 112 rejections, the examiner has provided a number of examples of the claim deficiencies in the above rejections, however, the list of rejections may not be all inclusive. Applicant should refer to these rejections as examples of deficiencies and should make all the necessary corrections to eliminate the 35 USC § 112 problems and place the claims in proper format. Due to the vagueness and a lack of clear definition of the terminology and phrases used in the specification and claims, the claims have been treated on their merits as best understood by the examiner.

10. Should applicant argue that any of the rejections provided in Office Action are logically inconsistent, because the examiner rejected claims 4, 6, 8, 12, 20, 23, 25, 27, 29, 33, 41, 46, 51, 53, 55, 57, 61, 69, 72, 74, 76, 78, 82, 90, 95, 111, 114, 118, 127, 135, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention while simultaneously, also rejecting claims 4, 6, 8, 12, 20, 23, 25, 27, 29, 33, 41, 46, 51, 53, 55, 57, 61, 69, 72, 74, 76, 78, 82, 90, 95, 111, 114, 118, 127, 135, under

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prior art, the examiner would respectfully disagree. *In the interests of compact prosecution, indefiniteness rejections and prior art rejections may be made simultaneously.*

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

11. Claims 122-137 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Referring to claims 122-137, the data signal is not tangibly embodied in a medium. Data structures not claimed as embodied in computer-readable media are descriptive material per se and are not statutory because they are not capable of causing functional change in the computer. See, e.g., *Warmerdam*, 33 F.3d at 1361, 31 USPQ2d at 1760 (claim to a data structure per se held nonstatutory).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

12. Claims 1-137 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Pat. No. 6,735,489 to Khurana.

The applied reference has a common inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C.

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102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Referring to claims 1, 50, 99, and 122, Khurana clearly teaches a method, system, part, and computer program of horizontally structured CAD/CAM manufacturing (Title; Abstract), comprising: selecting a blank for machining into an actual part (Col. 6, lines 32-37); establishing a coordinate system (Col. 2, lines 26-36; Col. 9, claim 4); creating a master process model (Col. 7; Col. 8, line 52) comprising: a virtual blank corresponding to said blank (Col. 8, lines 31-41); a manufacturing feature (Fig. 5); virtual machining of said manufacturing feature into said virtual blank (Col. 8, lines 31-41), said manufacturing feature exhibiting an associative relationship with said coordinate system (Fig. 5); and generating machining instructions to create said actual part by machining said manufacturing feature into said blank (Abstract; Col. 8, lines 61-64).

Referring to claims 2-49, 51-98, 100-121, and 123-137, Khurana teaches the above, wherein said associative relationship is a parent/child relationship, further including said manufacturing feature exhibiting an associative relationship with another said manufacturing feature, wherein said virtual blank exhibits an associative relationship with another said manufacturing feature or said coordinate system, further comprising creating extracts from said master product and process model, wherein said extracts comprise replicated models of said master product and process model at various operations of said manufacturing, teaches the above, wherein said virtual blank is positioned and oriented relative to said coordinate system, wherein said virtual blank is generated as a three dimensional parametric solid model from a

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reference set geometry, wherein said reference set geometry is defined by dimensional characteristics of a modeled part, wherein establishing said coordinate system comprises one or more datum planes, wherein said coordinate system comprises: creating a first datum plane positioned and oriented relative to a reference, creating a second datum plane positioned and oriented relative to said reference; and creating a third datum plane positioned and oriented relative to said reference, wherein said first datum plane, said second datum plane, and said third datum plane are orthogonal, and generating machining instructions to create said actual part by machining manufacturing features into a blank, wherein creating extracts from a master product and process model, wherein said extracts are used to generate manufacturing process sheets, wherein said product drawings include an associative relationship with said master product and process concurrent model, wherein the master product and process concurrent model links to a process planning system, wherein said process planning system comprises automated creation of a manufacturing process plan (See figures 1-6; Col. 2, lines 7-65; Col. 8, lines 11-41; Col. 8, lines 50-67; Col. 9, line 1 – Col. 10, line 17).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

(1). Determining the scope and contents of the prior art.

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- (2). Ascertaining the differences between the prior art and the claims at issue.
- (3). Resolving the level of ordinary skill in the pertinent art.
- (4). Considering objective evidence present in the application indicating obviousness or nonobviousness.

13. Claims 1-137 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Pat. No. 6,629,065 to Gadh (supplied by applicant) in view of U.S. Pat. No. 4,928,221 to Belkhiter. Claims 1-137 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Pat. No. 6,629,065 to Gadh in view of U.S. Pat. No. 6,430,455 to Rebello (supplied by applicant).

Referring to claims 1, 50, 99, and 122, Gadh clearly teaches a method, system, part, and computer program of horizontally structured CAD/CAM manufacturing for concurrent product and process design (Fig. 55A and 55B; Col. 36, lines 28-39; Col. 8, lines 5-24), comprising: selecting a blank for machining into an actual part establishing a coordinate system (Figs. 10A-10C and corresponding description, i.e., "rubber-banding"); creating a master product and process concurrent model (Col. 10, lines 22-58) comprising: a virtual blank corresponding to said blank (Fig. 55A, element b1); a manufacturing feature (Fig. 55A, any of elements nw or nb); virtual machining of said manufacturing feature into said virtual blank (See Fig. 55A and Col. 36, lines 28-39), said manufacturing feature exhibiting an associative relationship with said coordinate system (See Fig. 25A-25D; Col. 24, lines 6-32).

Gadh clearly teaches a design intent graph (D) used to create a design and record the specified design constraints to be used in future design activities. Clearly, D refers to the intended/desired geometric relations between the models features (Col. 20, lines 56-65). Gadh clearly teaches exemplary embodiments of a "machined part constructed in VDSF" with its corresponding D (Col. 36, lines 28-34).

2111.01. Webster's Dictionary defines associative as "of, or relating to, in association with" while relationship as "a state or character of being related...a natural or logical association between two or more things, connection."

Referring to claims 2-49, 51-98, 100-121, and 123-137, Gadh teaches the above, wherein said associative relationship is a parent/child relationship (Col. 24, lines 6-32; Col. 40, lines 14-57), further including said manufacturing feature exhibiting an associative relationship with another said manufacturing feature (Fig. 55A), wherein said virtual blank exhibits an associative relationship with another said manufacturing feature or said coordinate system (Fig. 55A), Gadh teaches the above, further comprising creating extracts from said master product and process model, wherein said extracts comprise replicated models of said master product and process model at various operations of said manufacturing (Fig. 55C; Col. 10, line 54- Col. 11, line 7), Gadh teaches the above, wherein said virtual blank is positioned and oriented relative to said coordinate system, wherein said virtual blank is generated as a three dimensional parametric solid model from a reference set geometry, wherein said reference set geometry is defined by dimensional characteristics of a modeled part, wherein establishing said coordinate system comprises one or more datum planes, wherein said coordinate system comprises: creating a first datum plane positioned and oriented relative to a reference, creating a second datum plane positioned and oriented relative to said reference; and creating a third datum plane positioned and oriented relative to said reference, wherein said first datum plane, said second datum plane, and said third datum plane are orthogonal (Figs. 25A-D and 55A).

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While Gadh clearly teaches creating a model and constructing a part in the VDSF, Gadh fails to provide for generating machining instructions to create the actual part by machining the manufacturing feature into the blank.

While the instant claims call for horizontally structured CAD/CAM manufacturing, as presented by Gadh above, the instant specification appears to describe this horizontal structure with respect to the establishment of relationships that are taught as both horizontal and vertical (See page 4-5 and 9-10 of the instant specification). Therefore, even though the examiner interprets the claims to require at least a horizontally structured relationship in the preamble, the claims do not required any of the limitations in the body of the claims to have such a horizontal structure, exclusive, or non-exclusive CAD/CAM relationship. Namely, the claims do not require a horizontally structured CAD/CAM relationship with respect to generating machining instructions to create the actual part by machining the manufacturing feature into the blank.

Furthermore, the recitation “horizontally structured CAD/CAM manufacturing” has not been given patentable weight because the recitation occurs in the preamble. A preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See *In re Hirao*, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and *Kropa v. Robie*, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951). Clearly, the body of the claims do not depend on the preamble for completeness, in fact, applicant has admitted that the intended use of the horizontal structure is not limited by non-verticality (See pages 4-5 of the instant specification).

The claims, as such, do not require any functional relationship between the limitation of an associative relationship and the limitation of generating machining instructions to create the actual part by machining the manufacturing feature into the blank. Furthermore, neither the part nor blank are required to be the product.

In view of the above, the examiner respectfully submits that patentability resides in the determination of non-obviousness with respect to generating machining instructions to create the actual part by machining, in real life, the manufacturing feature into the blank. The examiner respectfully submits that generating machining instructions to create the actual part by machining, in real life, a manufacturing feature, into a blank, is commonly known in the art, and therefore, the examiner is unable to make said determination of non-obviousness at this time.

The examiner believes these limitations are clearly taught by any of the prior art references of Belkhiter or Rebello.

Referring to claims 1-137, Belkhiter clearly teaches analogous art, wherein a conventional CAD/CAM system is used to produce a part drawing (Col. 2, lines 53-66 of '221) and then generating machining instructions to create said actual part by machining manufacturing features into a blank (See Cols. 7-8, table 2; Col. 1, lines 6-14 of '221), wherein creating extracts from a master product and process model, wherein said extracts are used to generate manufacturing process sheets, wherein said product drawings include an associative relationship with said master product and process concurrent model (Col. 14, lines 6-11 of '221).

Referring to claims 1-137, Rebello clearly teaches analogous art, wherein figure 2 clearly shows the processing architecture of the CAD/CAM system, wherein the processor uses a data extractor and populator to populate the extracted data in drawing files and NC machining data

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files (Col. 3, lines 18-32 of '455), if the drawings and NC machining data are satisfactory, the designer releases them to manufacturing for production of the part (Col. 1, lines 10-18 of '455), wherein creating extracts from a master product and process model (Col. 4, line 63 – Col. 5, line 6 of '455), wherein said extracts are used to generate manufacturing process sheets (Col. 7, claim 19; Col. 2, lines 39-64; Fig. 3, element 26 of '455), wherein said product drawings include an associative relationship with said master product and process concurrent model (Col. 3, lines 5-17; Col. 6, lines 13-17 of '455).

Therefore, it would have been obvious to one of ordinary skill in the art at the time that the invention was made to combine the teachings of either Belkhiter or Rebello with the teachings of Gadh.

One of ordinary skill in the art would have been motivated to combine Belkhiter with Gadh because Belkhiter teaches a part program suitable for machining a part from a drawing without the need for human intervention. Furthermore, Belkhiter teaches a system that reduces lead-time between the request for a part and the machining of a part. Further still, Belkhiter teaches a system that reduces manpower costs (Col. 1, line 62 – Col. 2, line 2 of '221).

One of ordinary skill in the art would have been motivated to combine Rebello with Gadh because Rebello teaches a system and method for managing files of a product in a design and manufacturing environment wherein costly mistakes are avoided and time to bring the product to market is reduced. Other advantages include discovery of inconsistencies, the ability to incorporate agility and concurrent engineering into design processes and divide roles across and between organizational structures quickly and efficiently (Col. 5, lines 37-46 of '455).

Double Patenting

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14. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer cannot overcome a double patenting rejection based upon 35 U.S.C. 101.

15. Claims 23, 24, 72, 73, 114, are objected to under 37 CFR 1.75 as being a substantial duplicate of claims 2, 4, 51, 53, 100, respectively. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

16. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

17. Claims 1-137 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-78 of U.S. Patent No. 6,775,581 to Landers. Claims 1-137 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-42 of U.S. Patent No. 6,754,556 to

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Landers. Claims 1-137 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-88 of copending Application No. 10/032959 to Landers (this is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented).

Although the conflicting claims are not identical, they are not patentably distinct from each other because

Claim(s) 1-137 are generally broader than claims 1-78 of U.S. Patent No. 6,775,581 to Landers. Claim(s) 1-137 are generally broader than claims 1-42 of U.S. Patent No. 6,754,556 to Landers. Claim(s) 1-137 are generally broader than claims 1-88 of copending Application No. 10/032959 to Landers. Broader claims in a later application constitute obvious double patenting of narrow claims in an issued patent. See In re Van Ornum and Stang, 214, USPQ 761, 766, and 767 (CCPA) (The court sustained an obvious double patenting rejection of generic claims in a continuation application over narrower species claims in an issued patent) ; In re Vogel, 164 USPQ 619, 622, and 623 (CCPA 1970) (Generic application claims specifying "meat" is obvious double patenting of narrow patent claims specifying "pork").

Conclusion

18. The prior art or art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following patents or publications are cited to further show the state of the art with respect to a master product and process concurrent model created in a CAD/CAM environment.

U.S. Pat. No. 6,434,441 to Beauchamp (Col. 4, lines 10-27; Cols. 5-6).

U.S. Pat. No. 5,075,866 to Goto.

The following patents or publications are cited to further show the state of the art with respect to associative parent-child relationships between product drawings and master product model.

U.S. Pat. No. 5,732,264 to Tanaka.

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19. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sean P. Shechtman whose telephone number is (703) 305-7798.

The examiner can normally be reached on 9:30am-6:00pm, M-F.

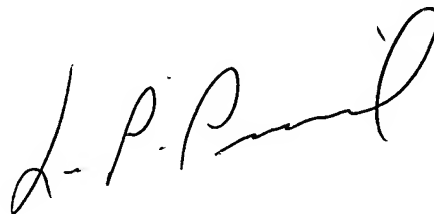
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo P. Picard can be reached on (703) 308-0538. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SPS

Sean P. Shechtman

September 26, 2004



LEO PICARD
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100